Free

\$1.00

\$2.00





California Environmental Protection Agency
Department of Toxic Substances Control
Office of Pollution Prevention and Technology Development
Technology Clearinghouse

Publications List

The Office of Pollution Prevention and Technology Development (OPPTD) within the Department of Toxic Substances Control (DTSC) provides this Publications List for your convenience. The Pollution Prevention Program supplies information on how to implement alternatives to the generation of hazardous pollutants (pollution prevention). The Technology Certification Program evaluates and certifies the performance of environmental technologies. The first seven copies of documents are available at no cost. Additional copies may be purchased at the prices listed. Reference copies are located at select California Repository Libraries. More DTSC information is available from our website at http://www.dtsc.ca.gov. Thank you for your interest in improving our environment. We hope this information will be useful.



HAZARDOUS WASTE SOURCE REDUCTION AND MANAGEMENT REVIEW ACT OF 1989

The preferred approach to waste minimization is source reduction. Source reduction is any activity that prevents or reduces the generation of hazardous waste. Source reduction does not include reducing the volume or toxicity after the hazardous waste is generated.

Doc. No. Title Price

001 Updated

Guidance Manual for Complying with the Hazardous Waste Source Reduction and Management Review Act of 1989 (2000, 124 pp.)

SB 14 requires generators to examine current hazardous waste generating processes for hazardous waste minimization opportunities and create a plan to implement workable alternatives. Generators of hazardous waste in excess of amounts specified in SB 14 must prepare a Source Reduction Evaluation Review and Plan, a Hazardous Waste Management Performance Report, and a Summary Progress Report according to a fixed time schedule.

—website: http://www.dtsc.ca.gov/sppt/pptd

002 SB 14 Update (1998, 1 pg.)

This brochure highlights the most recent changes to SB 14. The brochure discusses changes in applicability, new waste stream exemptions, and the newly mandated Summary Progress Report which must be submitted to the DTSC. The brochure also includes a brief summary of some of

003 Updated

Summary Progress Report for Complying with the Hazardous Waste Source Reduction and Management Review Act of 1989 (2000, 16 pp.)

the existing requirements of this law.

SB 14 generators, including small businesses, are required to submit the Summary Progress Report to DTSC by September 1, 1999. This document contains three forms and detailed instructions on how to prepare the Summary Progress Report.

—website: http://www.dtsc.ca.gov/sppt/pptd

004 Updated

Compliance Checklist for Complying with the Hazardous Waste Source Reduction and Management Review Act of 1989 (2000, 44 pp.)

The revised Compliance Checklist serves as a substitute format for the Source Reduction Evaluation Review and Plan. It also contains the Summary Progress Report. The Compliance Checklist can be used by small businesses only.

—website: http://www.dtsc.ca.gov/sppt/pptd

006 Pollution Prevention Planning - A Citizen's Free **Guide to Hazardous Waste Source Reduction (1997, 1 pg.)**

The Citizen's Guide explains the purposes and requirements of SB 14 to the public. The guide explains the term "source reduction" and discusses what information SB 14 regulated businesses must provide in the Source Reduction Plan and Management Performance Report documents. The guide also discusses the provision in the California Code of Regulations, Section 67100.3(b), which requires businesses to make their SB 14 documents available locally for public review. Spanish Version Also Available.

007 **Diskette of Summary Progress Report for** Free Complying with the Hazardous Waste **Source Reduction and Management Review** Act of 1989 (1999)

> Electronic, interactive version of Document No. 003 for IBM compatible PCs.

WASTE MINIMIZATION FACT SHEETS

A summary of waste minimization methods for specific industries.

Doc. No.	Title	Price
200	Pollution Prevention Can Work For You (1997, 6 pp.) A summary of general hazardous waste minimization definitions and techniques for businesses.	Free
*201	Aerospace Industry (1992, 4 pp.)	Free
*202	Automotive Paint Shops (1992, 4 pp.)	Free
203	Automotive Repair Shops (1992, 4 pp.)	Free
*204	Building Construction (1993, 4 pp.)	Free
*205	Commercial Printing Industry (1992, 4 pp.)	Free
*206	Metal Finishers (1992, 4 pp.)	Free
*207	Paint Formulators (1992, 4 pp.)	Free
*208	Pesticide Formulating Industry	Free
	(1992, 4 pp.)	
*209	Printed Circuit Board Manufacturers	Free
	(1992, 4 pp.)	
*210	Decorative Plating with Trivalent Chrome	Free
	(1992, 6 pp.)	
211	Research and Educational Institutions	Free
	(1993, 4 pp.)	
212	Ceramic Products (1993, 4 pp.)	Free
213	Drug Manufacturing and Processing	Free
	(1994, 6 pp.)	
215	Jewelry Manufacturing Industry	Free
	(1995, 6 pp.)	

216 **Paint Manufacturers Can Save Money on** Free **Environmental Compliance Costs** (1996, 4 pp.)

HAZARDOUS WASTE MINIMIZATION CHECKLIST AND ASSESSMENT MANUALS

Manuals developed to aid manufacturers in evaluating their shops for waste minimization opportunities.

Doc.	No. Title	Price
402	Metal Finishing Industry (1993, 143 pp.)	\$10.00
405	Electronics Industry (1996, 76 pp.)	\$7.00
410	Jewelry Manufacturers (1994, 43 pp.)	\$4.00
411	Commercial Printing Industry (1994, 54 pp.)	\$5.00
413	Pollution Prevention Guide for Hospitals (1998, 148 pp.)	\$10.00

BIENNIAL REPORTS TO THE CALIFORNIA STATE LEGISLATURE

Doc. No.	Title	Price
*501	Pollution Prevention in California - An Overview of California's Pollution Prevention Programs (Sixth Biennial) (1992, 110 pp.) An overview of California's multimedia pollution prevention programs at the State and local government levels. Industry pollution prevention case studies show how businesses respond to the pressure to reduce wastes.	Free

WASTE MINIMIZATION INFORMATION

Doc. No.	Title	Price
*505	Hazardous Waste Minimization Bibliography (1991, 76 pp.) References are organized in four sections: (1) general hazardous waste minimization topics, (2) industry-specific, (3) material specific, and (4) available abstracts from the previous three sections. All references are listed in alphabetical order by title.	Free

^{*} LIMITED TO STOCK ON HAND

Project Fact Sheet (1992, 8 pp.) Provides an interim update for the project using 1990 data taken from the manifest system. *508 Incinerable Waste Minimization Workshops Proceedings (1991, 251 pp.) A compilation of the papers presented at two workshops held in January 1991. Areas covered include: regulations, soure reduction: recycling strategies and opportunities, alternative technologies for petroleum refineries, electronics industry, aerospace industry; and chemical and paint manufacturers. 510 No-Waste Lab Manual for Educational Institutions (1991, 115 pp.) A laboratory manual for introductory chemistry courses incorporating procedures that produce little or no toxic waste. This is accomplished by the use of consecutive chemical reactions so that the production of one reaction is used as the starting material for the next. 517 Waste Minimization for Hazardous Materials Inspectors: Introductory Text with Self-Texting Exercises (Module I), and Metal Finishing Industry (Module III) (1991, 182 pp.) Module II focuses on some of the viable waste minimization alternatives for certain metal finishing operations. (Videotape also available-See Order #1500). 518 Waste Minimization Assessment Procedures: For the Generator (Module II, Unit 2) (1991, 81 pp.) Provides the hazardous waste generator with procedures for conducting a self-assessment and introduces the provisions of SB 14. \$8.00 Procedures: For the Generator (Module II, Unit 2) (1991, 81 pp.) Provides the hazardous waste generator with procedures for conducting a self-assessment and introduces the provisions of SB 14. \$8.00 Procedures: For the Generator (Module II, Unit 2) (1991, 81 pp.) Provides the hazardous waste generator with procedures for conducting a self-assessment and introduces the provisions of SB 14. \$8.00 Procedures: For the Generator (Module II, Unit 2) (1991, 81 pp.) Provides the hazardous waste generator with procedures for conducting a self-assessment and introduces the provisions of SB 14. \$8.00 Procedures: For the Generator (Module						
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See Order #1500). 528 Assessment of the Aerospace Industry Facility Planning Efforts (1993, 100 pp.) Presents the results of the DTSC's assessment of the aerospace industry's source reduction review and planning effort as mandated under SB 14. The report discusses the review of about 90 facility summaries and 22 plans and reports. *528 Assessment of the Aerospace Industry Facility Planning Efforts (1993, 100 pp.) Presents the results of the DTSC's assessment of the aerospace industry's source reduction review and planning effort as mandated under SB 14. The report discusses the review of about 90 facility summaries and 22 plans and reports. *529 Assessment of the Petroleum Industry Facility Planning Efforts (1993, 70 pp.) Presents the results of DTSC's assessment of the petroleum industry's source reduction review and planning effort mandated by SB 14. The report		minimization alternatives for certain metal		Doc. No.	Title	Price
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area of pollution prevention during calendar year 1993. The report highlights several very important projects which are being looked upon as national models. discusses the source reduction review of approximately 18 petroleum industry facilities.	*526	Review (1994, 96 pp.) Documents the significant accomplishments and activities that have been achieved by DTSC in the area of pollution prevention during calendar year 1993. The report highlights several very important projects which are being looked upon	Free		Presents the results of DTSC's assessment of the petroleum industry's source reduction review and planning effort mandated by SB 14. The report discusses the source reduction review of	

530	Assessment of the Semiconductor Industry Source Reduction Planning Efforts (1994, 85 pp.) Presents the results of the DTSC's assessment of the semiconductor industry's source reduction review and planning effort as mandated under SB 14. Assessment of 1,1,1-Trichloroethane Users Source Reduction Efforts (1995, 125 pp.)	\$8.00 \$10.00	537	Assessment of Chemicals and Allied Products Industry Source Reduction Planning Efforts (1998, 106 pp.) Presents findings from DTSC's source reduction planning assessment of 40 facilities classified under seven SIC codes within the Chemicals and Allied Products Industry. This report contains descriptions of each of the 40 companies, discusses compliance issues, and lists source reduction measures for the industry.	\$10.00
	More than forty different companies representing over thirty different industries submitted source reduction documents with 1,1,1-trichloroethane substitution information. Thirty-five abstracts explain how these companies are making the transition to other cleaners. Document call-in and review conducted under authority of SB 14.		538 NEW	Assessment of California's Largest Hazardous Waste Generator's Source Reduction Effort (1998, 65 pp.) Presents DTSC's' assessment of some of the largest hazardous waste generators source reduction planning efforts. SB 14 documents from 28 facilities from a wide range of industries were	\$5.00
532	Assessment of Selected Paints and Allied Product Manufacturers Source Reduction Facility Planning Efforts (1995, 37 pp.) Summarizes the results of DTSC's assessment of the paint manufacturing industry's source reduction and facility planning efforts. DTSC requested and reviewed Plans and Reports from 26 facilities within this SIC Code (2851).	\$4.00	539 NEW	requested and reviewed for this report. Waste generation comparisons were made for the period 1990 to 1994 and beyond. Most facilities reported a decrease in hazardous waste generation. Source Reduction Technologies in California Printed Circuit Board Manufacture (1999, 30 pp.) Innovative technologies are discussed in this	\$8.00
533	Assessment of the Polymers and Resins Industry Hazardous Waste Source Reduction Planning Efforts (1996, 75 pp.) Presents the results of DTSC's assessment of the polymers and resins industry's source reduction review and planning effort as mandated under SB 14. DTSC requested and reviewed Plans and Reports from 31 facilities.	\$7.00	W	report. Most are commercially available, yet innovative in that they are new or improved technologies that offer economic and/or environmental advantages over conventional technologies. ASTE STREAM SPECIFIC INFORMATION	ON .
534	Assessment of the Metal Finishing and	\$6.00			
	Plating Industry Source Reduction Planning Efforts (1996, 62 pp.) Summarizes the results of the DTSC's assessment of the metal finishing and plating industry's source reduction efforts as mandated by SB 14. Plans and reports from 75 facilities were reviewed.		607	Aqueous Alternatives to Solvent Cleaning (1994, 6 pp.) A summary of general information on many of the aqueous alternatives available to replace solvent cleaners.	\$1.00
536	Assessment of the Petroleum Industry Hazardous Waste Source Reduction Planning Efforts (1997, 91 pp.) This second assessment highlights several successful source reduction measures leading to significant reductions of hazardous waste generations, offers an interesting comparison of 1990 vs. 1994 source reduction progress, and discusses future plans	\$10.00	608	Alternatives to Chlorinated Solvents in Cleaning Applications (1994, 132 pp.) Discusses the chemical and process alternatives to chlorinated solvents in vapor degreasing, cold cleaning, printed circuit board defluxing and handwipe operations. The report also summarizes the air, water, and waste regulations that apply to	\$10.00

discusses future plans.

alternatives. Detailed case studies demonstrate the issues that firms must consider when they are selecting an alternative.

609 Simplified Guide for Evaluating Alternatives to Chlorinated Solvents in Cleaning Applications (1995, 22 pp.)

Presents a simplified approach for evaluating alternatives to chlorinated solvents in various cleaning applications. This approach is based on a detailed cross-media analysis of the alternatives in vapor degreasings, cold cleaning, wipe cleaning and printed circuit board defluxing as described in Document Number 608. Written by Dr. Katy Wolf of the Institute of Research and Technical Assistance (IRTA).

\$2.00

\$2.00

Free

Free

610 Compliance Assistance PCB Self-Inspection \$1.00 Updated Checklist for PCB Waste Generators (1999, 8 pp.)

A checklist designed to approximate one that an inspector might use while examining a facility for PCB compliance. Also provides regulatory references to assist in locating further information or regulations concerning specific issues or sections of the checklist. Both federal and California state PCB regulations are discussed.

Parts Cleaning Alternatives in Machine Shops (1995, 16 pp.)

A guide to assist shop operators in the evaluation and adoption of alternatives to the use of 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) and 1,1,1-trichloroethane (TCA) for parts cleaning. These two chlorinated solvents have been banned as of January 1, 1996. The report is also a primer for those interested in pollution prevention strategies for machine shops.

Waste Management for Painters (1997, 3 pp.)

Explains practical waste management methods to eliminate or reduce waste generation, and safely recycle or dispose of leftover paint waste, wash water, containers and used equipment.

Parts Cleaning in Auto Repair Facilities: The Conversion to Water Executive Summary (1997, 4 pp.)

Provides a brief overview of the results of a test and demonstration project in Los Angeles, California for water-based cleaning systems in auto repair facilities. Four types of equipment were investigated including a sink-on-a-drum remote reservoir configuration, an immersion system, an enzyme unit and a spray cabinet. Four water-based cleaning formulations were tested: three were alkaline cleaners and one was an enzyme cleaner.

Parts Cleaning in Auto Repair Facilities: The Conversion to Water (1997, 80 pp.)

This report presents the results of the test and demonstration project summarized in Document Number 613. Information contained includes testing for technical feasibility, analysis of results, cost analysis and project findings and implications. Report also contains Material Safety Data Sheets for aqueous cleaning formulations used in the project.

\$8.00

\$10.00

\$2.00

\$4.00

\$4.00

Appendices to Parts Cleaning in Auto Repair Facilities: The Conversion to Water (1997, 250 pp.)

These appendices present the water quality data collected in the test and demonstration project summarized in Document Number 613 and reported in 614. Data printouts include listing of inorganic and organic laboratory results.

616 Switching to Water-Based Cleaners in NEW Repair and Maintenance Parts Cleaning (1999, 2 pp.)

This two-page brochure provides specific information on water-based cleaning systems, formulations, costs, regulatory concerns and frequently asked questions and answers related to repair and maintenance parts cleaning in auto repair shops and other maintenance parts cleaning.

617 Water-Based Parts Washer Systems: A NEW Guidance Program for Users (1999, 3 pp.)

This document presents detailed information on water-based cleaning systems and formulations used widely in auto repair facilities as a also replacement for mineral spirits cleaning systems. Document analyzes state and federal hazardous waste regulations that affect the transition from mineral spirits to water-based cleaning.

618 Water-Based Parts Washer Systems: Case NEW Study Conversions (1999, 29 pp.)

This reports presents the results of case studies in auto repair and industrial facilities using water-based cleaning systems and formulations. Four generic types of equipment and four water-based cleaning formulations were tested at various concentrations. The case studies contain feasibility and cost information as well as ways to optimize use of equipment and cleaners.

* LIMITED TO STOCK ON HAND

619(a) NEW	Switching to Water-Based Cleaners for Automotive Brake Cleaning, (1999, 2 pp.) This two-page brochure provides specific information on water-based cleaning systems, formulations, costs, regulatory concerns and frequently asked questions related to automotive brake cleaning.	\$2.00
619(b) NEW	Cambiando Al Limpiador A Base De Agua Para La Limpieza De Frenos Automotriz (1999, 2 pp.) Este folleto provee información especifica de sistemas de limpiar a base de agua, formulaciones, costos, problemas de regulación y preguntas comunmente hechas relativo a limpieza de frenos automotriz.	\$2.00
620 NEW	Brake Cleaning in Automotive Repair Facilities: The Conversion to Water (1999, 113 pp.) This document presents detailed information on water-based cleaning systems and formulations used widely for automotive brake cleaning as a replacement for perchloroethylene (PERC). Document analyzes State and federal hazardous waste regulations that affect the transition from PERC to water-based cleaning.	\$8.00
621 NEW	Seven (7) Case Studies: The Conversion to Water-Based Cleaners for Automotive Brake Cleaning in Los Angeles (1999, 7 pp.) (English and Spanish) This collection of seven, one-page case studies presents a thumbnail sketch of water-based cleaning systems and formulations used in seven shops in the Los Angeles area.	\$5.00

Equipment, cleaner, and disposal costs for aerosol brake versus water-based brake cleaning systems are compared. Side one in English with flip side

in Spanish.

ENVIRONMENTAL TECHNOLOGY CERTIFICATION / VERIFICATION PROGRAM



Hazardous waste environmental technologies are evaluated for certification by the State of California and/or verification by a joint Cal/EPA-U.S. EPA Pilot Project.

Doc. No.	Title	Price
700	California Hazardous Waste Environmental Technology Certification Program-Program Summary, August 1998 (1998, 3 pp.)	Free
701	Technology Transfer Advisories (1999, 33 pp.) A brief 1-2 page description of each of the certified technologies.	\$4.00
702	California Environmental Technology Verification (ETV) Pilot Program - Pollution Prevention and Waste Treatment Technologies (1998, 3 pp.) A summary of joint Cal/EPA - U.S. EPA ETV Pilot Program. The purpose of this pilot program is to verify the performance of commercial-ready technology through objective and quality-assured data.	Free
703	Hazardous Waste Environmental Technology Certification Program - Process Description (1997, 14 pp.) This document describes the process used by DTSC to evaluate the technologies for the Hazardous Waste Environmental Technology Certification Program. The process description includes a flow chart and narrative which gives a brief description of each of the process steps.	\$2.00
704	California Hazardous Waste Environmental Technology Certification Program - Part I Application Instructions (1998, 12 pp.) The Part I Application Instructions provide you with the information needed to request evaluation of your technology through the Hazardous Waste Environmental Technology Certification Program. Applicants meeting eligibility and program screening criteria will be asked to submit a Part II Application which provides detailed supporting information and data relative to specific performance claims identified.	\$2.00

710	General Acceptance Criteria and Standards Guidance for the Verification of Environmental Technologies (1998, 10 pp.) This document outlines the data quality acceptance and quality control criteria to be used in the verification of environmental technologies.	\$1.00	751	Technology Verification Report-Rayovac Renewal Rechargeable Alkaline Battery System (1999, 47 pp.) Final Report describes the Rayovac Renewal System which was verified as a pollution prevention technology that replaces up to ten nonrechargeable alkaline batteries of the same	\$5.00
711	Acceptance Criteria, Performance and Process Guidance for the Certification of	\$4.00		size.	
	Bioremediation Technologies (1998, 38 pp.) This document delineates information needs, minimum criteria to be met and a process to be followed for the performance certification of			ALTERNATIVE TECHNOLOGY New and innovative alternative technologies.	
	followed for the performance certification of biotechnologies.		Doc. No.	Title	Price
712	Performance-based Certification of Hazardous Waste Measurement and Monitoring Technologies (1998, 49 pp.) Protocol describes documents and performance data required for the evaluation of measurement and monitoring technologies. Such technologies are used in site characterization, environmental field testing, sampling, sample preparation methods, and analysis by instrumental, chemical and biological methods.	\$5.00	*1212	Alternative Technology Demonstration Project Report - Use of Kerr McGee Chemical Corporation Boiler Fly Ash as a Feedstock in the Manufacturing of Southwestern Portland Cement (1992, 9 pp.) This project determined that the use of Kerr McGee fly ash as an ingredient in the manufacture of Portland Cement resulted in a cement product that effectively stabilized	Free
713	Technology Evaluation Work Plan - Rechargeable Alkaline Battery System (1998, draft, 17 pp.) Technology Evaluation work plan for rechargeable alkaline battery system certification. (Originally drafted for the Rayovac Renewal _® Rechargeable Battery System evaluation.)	\$2.00	*1217	hazardous levels of nickel and vanadium present in the ash ingredient. California Environmental Technologies and Services Directory Diskette (1994) An alphabetical listing of over 1,100 California environmental companies and a series of technology matrices giving detailed information	Free
730	Technology Evaluation Work Plan - Smart Sonic Ultrasonic Aqueous Cleaning System (1998, 26 pp.) Workplan for evaluation for the SMART SONIC ultrasonic aqueous cleaning system. It describes	\$3.00		about the company's involvement in the environmental industry. The Directory is only available on disk.	
	the protocol for evaluation, including testing by the South Coast Air Quality Management		R	EMEDIAL TECHNOLOGY INFORMATIO	N
	District, user interviews and on-site visits. (Verification Report available separately as #750).		Doc. No.	Title	Price
750	Technology Verification Report - Smart Sonic Ultrasonic Aqueous Cleaning System (1999, 43 pp.) Final Report for Verification (and California Certification) of the SMART SONIC ultrasonic aqueous cleaning system. It describes how the SMART SONIC system cleans lead solder from printed circuit board stencils.	\$5.00	1350	Remedial Technology Applications Matrix for Soils and Sludges (1991, 16 pp.) The Remedial Technology Applications Matrix was developed to identify treatment technologies applicable to treating contaminated soils and sludges that should be considered for hazardous waste site cleanup.	\$2.00

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1500 Waste Minimization for Inspectors (Videotape of a slide show) (1991, 44 minutes)

A three-section videotape of a slide show that provides a basic introduction to waste minimization and assessment procedures and an excellent overview of waste minimization processes involved in metal cleaning, metal finishing and printed circuit board manufacturing.

Why Waste?: Waste Minimization for Today's Businesses (1990, 28 minutes)

Defines waste minimization and illustrates waste minimization successes in several different types of businesses. Source reduction and recycling case studies illustrate the environmental and economic benefits of implementing waste minimization program. Is useful for training sessions and seminars focusing on innovative ways for reducing hazardous waste.

1502 The Surfer, the Garbageman, and the Lady in the Sky (1993, 15 minutes)

A videotape written, directed and produced by high school students that chronicles personal responsibilities relating to hazardous waste generation, resource conservation and pollution prevention. The accompanying workbook, "Economics and the Environment: Teamed for Success," provides a guide to teachers for class discussions and assignments through a series of case studies, interviews, and research materials. This is accomplished through presentations on the economic and environmental pros and cons of certain personal and business decisions related to using hazardous materials, energy, and natural resources.

POLLUTION PREVENTION CASE STUDIES

Doc. No.	Title	Price
1600	Zero Water Discharge in the Metal Plating Industry Using an Improved Ion Exchange Process (1996, 6 pp.)	\$1.00
*1601	Monsanto: The Synergy Between Total Quality and Pollution Prevention (1996, 8 pp.) Source reduction measures implemented at a catalyst manufacturing facility.	\$1.00

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FOR FURTHER INFORMATION VISIT THESE WEBSITES:

Other documents and executive summaries are available online through the California Environmental Protection Agency (Cal/EPA) Home Page. Use the following Uniform Resource Locators (URLs) to find the web page for Cal/EPA, DTSC and OPPTD. The Cal/EPA web page has a hypertext link to DTSC. The DTSC web page has a hypertext link to OPPTD. The following are the web page addresses:

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